ASH GROVE CEMENT WEST, INC.

Inter-Office Memorandum

Date August 15, 1989

To Jim Post

From Ken Rone

Copies to Steve Sheridan

Subject Midwest Unloader Emission Permits

Any modifications to any existing air pollution equipment or a change in emissions and/or emission points will require a Notice of Construction.

The permits to operate the present unit and information from my files that I gathered prior to our acquisition are included for your review. Please let me know if you need more information.

627413

AGCS2M003468

F. W.T
~~AIR~~ ENVIRON
AIR

PUGET SOUND
AIR POLLUTION
CONTROL AGENCY

200 West Mercer Street, Room 205
Seattle, Washington 98119-3958
Telephone: (206) 296-7330
Facsimile: (206) 296-7431

February 15, 1989

ASH GROVE CEMENT WEST INC
3801 E MARGINAL WAY SW
SEATTLE, WA 98106

Attention: STAN WEBB, SHIPPING SUPERVISOR

1989 ANNUAL REGISTRATION -- 11872
5900 W MARGINAL WAY SW, SEATTLE

We are again updating our Registration system and are enclosing Registration forms which are required to be completed. These forms are a computer listing of all air contaminant generating equipment and control apparatus on site as of January 1, 1989, as well as all materials handled, processes operating or emission points used in 1988. The owner of the source is responsible for the completion, submittal, and correctness of all these Registration forms by April 17, 1989.

Also enclosed is an invoice for the 1989 annual Registration fee based on the items shown on the Registration forms. This annual Registration fee is due and payable and shall be deemed delinquent if not fully paid within sixty days. If delinquent, a penalty of ten percent of the fee shall be assessed, unless the time for payment is extended by the Control Officer.

This request and fee is authorized and required by Puget Sound Air Pollution Control Agency Regulation I, Article 5 and Washington State RCW 70.94.151. If you have any questions concerning the Registration forms, please call John Anderson (296-7335) or Harry Watters (296-7334). Questions concerning billing procedures should be directed to Mrs. Ferol Hoxie (296-7331).

Very truly yours,

Anita J. Frankel

Anita J. Frankel
Air Pollution Control Officer

Enclosures

SERVING:

KING COUNTY
200 West Mercer St.
Room 205
Seattle, 98119-3958
(206) 296-7330

KITSAP COUNTY
Dial Operator for Toll
Free Number ZEnith 8385
Bainbridge Island Residents
Dial 296-7330

PIERCE COUNTY
901 Tacoma Avenue South
213 Hess Building
Tacoma, 98402
(206) 593-2225

SNOHOMISH COUNTY
1-800-552-3565

PUGET SOUND AIR POLLUTION CONTROL AGENCY
Engineering Division (206) 344-7335
200 W MERCER ST #205, Seattle, WA 98119-3958

2/15/89

Form 4

OPERATING SCHEDULE INFORMATION

Page 1

ASH GROVE CEMENT WEST INC

Reg #:11872
DOE #:

5900 W MARGINAL WAY SW, SEATTLE
King County 98106

Mail:
3801 E MARGINAL WAY SW
SEATTLE, WA 98106

STAN WEBB SHIPPING SUPERVISOR 623-5596
KENNETH RONE TERMINAL MANAGER 623-5596

SIC # 3241 HYDRAULIC CEMENT

Normal Operation:

Hours/Day 24

Days/Week 5

Weeks/Year 52

% Annual Throughput:

Dec-Feb 17.2 %

Mar-May 22.0 %

June-Aug 29.9 %

Sept-Nov 30.9 %

Please return all pages of this 1989 Registration Form 4 titled "OPERATING SCHEDULE INFORMATION", by April 17, 1989, with any discrepancies corrected and any omitted items added.

KENNETH RONE JR. — Name

TERMINAL MGR — Title

Kenneth Rone Jr. — Signature

2/23/89 — Date

AGCS2M003470

ASH GROVE CEMENT WEST INC Reg #:11872

Air Contaminant Control Apparatus (CE File):

(3) BAGHOUSE
RAILCAR LOADING
8000 CFM

(4) BAGHOUSE
TRUCK LOADING
13000 CFM

(5) BAGHOUSE(7)
SHIP UNLOADING
20090 CFM

This section is for reference only--not a basis for fees.

Notices of Construction (NC File):	Approved	Est Complt	Installd
# 1909 CLINKER MILLING	05 24 79		
# 2169 CEMENT UNLOAD W 5-B/H,NC1909	10 02 80		9 1 84

Inspection Record (CM File):

INSPECTED 06-24-81 JJE
05-13-82 JJE/AKC
05-26-83 JJE
05-16-84 JJE
05-22-85 JJE
06-26-86 JJE 2
05-20-87 VLA 2

PUGET SOUND AIR POLLUTION CONTROL AGENCY
FEB 8, 1989, 10:11 AM

Form 1 REGISTERED EQUIPMENT/CONTROL APPARATUS

ASH GROVE CEMENT WEST INC Reg #:11872

Please return all pages of this 1989 Registration Form 1 titled "REGISTERED EQUIPMENT/CONTROL APPARATUS", by April 17, 1989, with any discrepancies corrected and any omitted items added.

KENNETH ROWE	TERMINAL MANAGER
Name	Title
[signature]	2/23/89
Signature	Date

PUGET SOUND AIR POLLUTION CONTROL AGENCY 2/15/89
Engineering Division (206) 344-7335
200 W MERCER ST #205, Seattle, WA 98119-3958

Form 1 REGISTERED EQUIPMENT/CONTROL APPARATUS Page 1

(Needed for identification & surveillance of air contaminant sources)

ASH GROVE CEMENT WEST INC

Reg #:11872
DOE #:

5900 W MARGINAL WAY SW, SEATTLE
King County 98106

Mail:
3801 E MARGINAL WAY SW
SEATTLE, WA 98106

STAN WEBB SHIPPING SUPERVISOR 623-5596
KENNETH RONE TERMINAL MANAGER 623-5596

SIC # 3241 HYDRAULIC CEMENT

Air Contaminant Generating Equipment/Air Contaminant Control Apparatus

(1) SILO(12)
CEMENT

(2) UNLOADING
BARGE--CEMENT
EQUIPMENT SOLD 4/87

(3) RAILCAR LOADING
CEMENT

(4) TRUCK LOADING
CEMENT

(5) UNLOADING
SHIP

Air Contaminant Control Apparatus (CE File):

(1) BAGHOUSE(2)
CEMENT SILOS
14000 CFM

(2) BAGHOUSE
BARGE UNLOADING
EQUIPMENT SOLD 4/87

AGCS2M003473

PUGET SOUND AIR POLLUTION CONTROL AGENCY R.06891

200 West Mercer Street, Room 205
Seattle, Washington 98119-3958
Tel. (206) 344-7324

INVOICE

ASH GROVE CEMENT WEST INC
Attn: Accounts Payable
3801 E MARGINAL WAY SW
SEATTLE, WA 98106

Date: 2/15/89

1989 REGISTRATION FEE STATEMENT -- 11872
5900 W MARGINAL WAY SW, SEATTLE

This annual registration fee is calculated in accordance with Section 5.07, Regulation I of the Puget Sound Air Pollution Control Agency. It is based on the Agency's files showing equipment or controls on site as of January 1, 1989 and all materials handled, processes operating or emission points/stacks used in 1988.

	File Items	Costs per Item	Total Costs	
Fixed Charge per Facility	-	-	$ 60.00	
Air Contaminant Generating Equipment	~~5~~ 4	$25	$ ~~125.00~~	100.00
Air Contaminant Control Apparatus	~~5~~ 4	$25	$ ~~125.00~~	100.00
Total 1989 Registration Fee			$ ~~310.00~~	260.00

1989 Registration Fee is due and payable and shall be deemed delinquent if not fully paid within sixty (60) days.

Issue check payable to PUGET SOUND AIR POLLUTION CONTROL AGENCY.
Mail to the above address.

KEEP THIS COPY FOR YOUR RECORDS

PLEASE MAIL DUPLICATE COPY WITH YOUR PAYMENT

ARTICLE 6
NOTICES OF CONSTRUCTION AND ORDERS OF APPROVAL

SECTION 6.03 REQUIREMENT FOR SUBMITTING A NOTICE OF CONSTRUCTION

(a) No person shall construct, install or establish a new air contaminant source, except those sources that are excluded in Exhibit "A" of Section 5.03 unless a "Notice of Construction and Application for Approval," on forms prepared and furnished by the Agency, has been filed and approved by the Agency in accordance with Sections 6.07(a) or 6.11 and fees paid as provided in Section 6.04. For purposes of this Article, alterations shall be construed as construction, installation or establishment of a new air contaminant source.

(b) A Notice of Construction and Application for Approval shall not be required to commence an alteration of a source in the event of breakdown or if delaying the alteration may endanger life or have other serious consequences. The Agency shall be notified in writing of the alteration on the first working day after the alteration is commenced and a Notice of Construction and Application for Approval shall be filed within fourteen (14) days after the day the alteration is commenced.

(c) A separate Notice and Application shall be submitted for each air contaminant source unless identical sources are to be installed, constructed or established in an identical manner at the same facility; provided that, the owner has the option to give notice and apply for approval of a facility with a detailed inventory of contaminant sources and emissions related to said facility.

SECTION 6.04 FILING FEES—NOTICE OF CONSTRUCTION

The Agency shall not commence processing of a Notice of Construction and Application for Approval until it has received a filing fee of $50.00, plan examination and inspection fees as shown in Table A, and, if offsetting emission reductions are required, an offset analysis fee of $500.00.

NEED NEW FILE - 'WEST TERMINAL'

F. WEST TERMINAL

ASH GROVE CEMENT WEST, INC.

Inter-Office Memorandum

Date 3/7/87

To File

From Ken Rone

Copies to

Subject Kaiser Terminal

Reviewed today the file at PSAPCA, available for public review, on the Kaiser Terminal. The file was astonishingly free of citations or other actions relative to ship unloading by the Mid-West Unloader (in operations since 1983).

Comments of note include an action in March 1981 where Kaiser appealed a N.O.V. however backed away from its appeal and paid the fine without canceling it's scheduled hearing. This annoyed PSAPCA. Also, a denial was issued in 1978 for the use of a clam shell bucket for clinker unloading and advising the Paceco continous cable unloader would be considered BACT and LAER.

HISTORY OF CITATIONS ARE AS FOLLOWS:

11/08/72	60% opacity from railcar unloading baghouse.
12/01/78	100% opacity from MV Mediterranian Carrier.
01/22/79	30-40% opacity from truck loadout baghouse.
01/30/79	11:20 am emmission from MV Med. Carrier.
01/30/79	11:48 am " " " " "
02/18/79	Emission from truck loading baghouse.
07/28/82	Particulate matter from yards becoming airborn.
03/29/85	Fugitive emmissions from unloader.
09/13/85	Silo baghouse - visible emission.

F get Sound Air Polli. ion Control Agency

Notice of Construction No. 2169

Date OCT 2 1980

HEREBY GRANTS
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Three Vokes DLM-V20-F Baghouses at 2,000 cfm each (one at Dock-belt transfer, two at Shore-belt transfer); two MikroPul 144S-10-20 (Ship unloader) baghouses at 7,500 cfm each; one MikroPul 49S-8-20 (Ship unloader transfer) baghouse at 2,500 cfm; and totally enclosed dock conveyor. (Reference also N/C No. 1909)

APPLICANT
Mr. R. H. Berby
Kaiser Cement Corporation (NAME)
300 Lakeside Drive (STREET)
Oakland, CA 94612 (CITY, STATE, ZIP)

OWNER
Same (NAME)
(STREET)
(CITY, STATE, ZIP)

INSTALLATION ADDRESS

5900 W. Marginal Way S.W. (STREET) Seattle (CITY) WA (STATE) 98106 (ZIP)

SUBJECT TO THE FOLLOWING RESTRICTIONS Seattle Unloader

GENERAL

Permission is hereby granted as provided in Article 6 of Regulation I of the PSAPCA to the APPLICANT to install, alter, or establish the equipment, device, or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the ENGINEERING DIVISION of PSAPCA. This approval is not a waiver of liability for the infraction of Regulation I nor does it relieve the APPLICANT or OWNER of any requirements of other government agencies.

SPECIFIC

Harry A. Watters
Reviewing Engineer

A. R. Dammkoehler
Air Pollution Control Officer

gh

Form 50 118 Approved 11/73

AGCS2M003477

NOTICE OF COMPLETION

WARNING:

Regulation I, Section 6.09(a), requires that the owner or applicant notify the Agency of the completion of the work covered by the application and when its operation will begin. This form is provided for your convenience to assist you in complying with this part of the Regulation.

APPLICANT or OWNER SECTION

Mail to: Puget Sound Air Pollution Control Agency
Plan Review Section
410 West Harrison Street
P.O. Box 9863
Seattle, Washington 98109

Gentlemen:

The project described below was completed on _____ and will be in operation on _____.

Signature of Owner and/or Applicant _____ Title _____ Date _____

FOR AGENCY USE ONLY

Notice of Construction No. 2169

Project Description: Three Vokes DLM-V20-F Baghouses at 2,000 cfm each (one at Dock-belt transfer, two at Shore-belt transfer); two MikroPul 144S-10-20 (Ship unloader) baghouses at 7,500 cfm each; one MikroPul 49S-8-20 (Ship unloader transfer) baghouse at 2,500 cfm; and totally enclosed dock conveyor. (Reference also N/C No. 1909)

Owner's Name Mr. R. H. Berby, Kaiser Cement Corporation, 300 Lakeside Drive, Oakland, CA 94612

Location 5900 W. Marginal Way S.W., Seattle, WA 98106 INSTALLATION ADDRESS

☒ Inspector check ☐ Engineer _____ and Inspector check

Follow-up _____ (Estimated Completion Date Plus 7)

Date Inspected _____ Inspector _____

REMARKS: _____

☐ See Attachment

FORM 63.11.1 8/76

AGCS2M003478

KAISER CEMENT

KAISER CEMENT CORPORATION, KAISER BUILDING, 300 LAKESIDE DRIVE, OAKLAND, CALIFORNIA 94612
Phone: (415) 271-2123

September 17, 1980

Puget Sound Air Pollution Control Agency
410 West Harrison Street
P. O. Box 9863
Seattle, Washington 98109

Attention: Mr. H. A. Waters

Re: Ship Unloading Facility Modification (N.C. 1909)

Gentlemen:

Attached are our applications for revisions to the presently permitted ship unloading facility at 5900 W. Marginal Way SW.

Kindly advise if you desire further information.

Very truly yours,

KAISER CEMENT CORPORATION

R. H. Berby
Manager,
Environmental Control & Energy

RHB:br
Enclosures

cc: Mr. Michael M. Johnston
Chief, New Source Permit Section
U. S. Environmental Protection Agency
Region X, Mail Stop 513
1200 - 6th Avenue
Seattle, Washington 98101

DESCRIPTION

The Kaiser Cement Corp. West Marginal Way Cement Distribution Facility currently receives cement from ships for storage and distribution from its existing silo complex via truck and rail.

Permits have been obtained for new docking facilities, an enclosed ship unloading system, clinker and gypsum storage and grinding facilities to produce cement for storage and distribution from the existing silo complex. The company has decided to defer installation of the clinker and gypsum storage and grinding facilities for cement production.

The company proposes to use the new enclosed ship unloading system for the continued transfer of cement from ships to the existing silos and to revise the presently permitted new dock conveyor to provide for its total enclosure.

The presently permitted new dock conveyor is an open conveyor receiving material from the ship unloader via a chute fitted with an eight foot long covered skirtboard per sheet 2 dated 4-27-79 (attached) of the originally permitted application. The modification proposed to totally enclose the dock conveyor consists of fixed sideboards fitted with a flexible cover the entire length of the dock conveyor. The conveyor would receive material from the presently permitted enclosed ship unloader via an enclosed screw conveyor fitted with a roller seal assembly at its discharge end which would guide and seal the flexible conveyor cover around the screw conveyor discharge - providing total enclosure of the screw discharge as well as the entire length of the dock conveyor per sheet 4 dated 9-4-80 (attached).

The proposed revision would replace the presently permitted single dust collector on the ship unloader with two dust collectors of the same total capacity as the original. A dust collector would be added to serve the ship unloader discharge screw conveyor and two dust collectors would be added to serve the discharge from the enclosed shore conveyor to the new pneumatic transfer pump. Sheet 2 dated 4-27-79 of the presently permitted application incorrectly identified the prior ship unloader discharge chute as section B-B. Section B-B of new sheet 2 dated 9-4-80 correctly depicts the shore conveyor and its cover.

\ISER CEMENT CORPORATIO
WEST MARGINAL WAY - CEMENT FACILITY

Emissions - Summary - Comparison

Current

		Dust Coll.	CFM	Hrs/ Year	Lbs/hr .01 gr/CF	TPY
*	Cement silo - in	6-DC-1	7,000	1,200	.6	.4
*	Cement silo - in	6-DC-2	7,000	1,200	.6	.4
*	Truck load out	6-DC-3	13,000	3,000	1.1	1.7
*	Rail load out	6-DC-4	8.000	700	.7	.3
						2.8

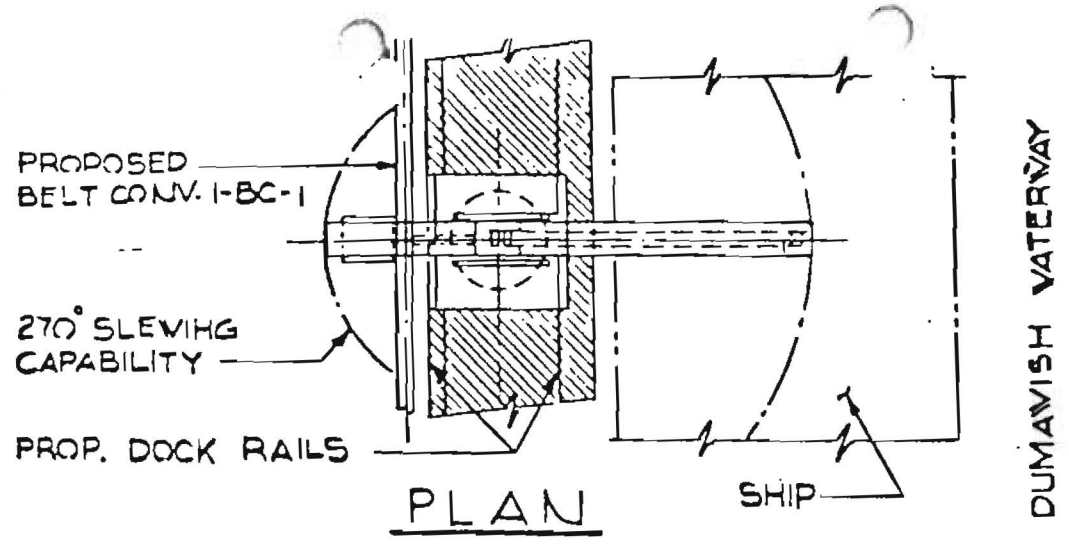
Present Permit N.C. 1909

	Ship unloader	1-DC-1	15,000	1,152	1.3	.7
	Belt transfer	1-DC-3	2,000	1,152	.2	.1
	Truck unload	1-DC-2	7,500	305	.6	.1
	Truck transfer	1-DC-4	2,000	305	.2	.03
	Silo in	5-DC-1	8,000	1,152	.7	.4
	Silo dischg.	5-DC-2	2,000	6,710	.2	.5
	Feed bins - in	5-DC-3	8,000	6,710	.7	1.9
	Feed bins - dischg.	5-DC-4	6,000	6,710	.5	1.4
	Finish mill	5-DC-5	55,000	6,710	4.7	12.9
	Motor Room	5-DC-6	5,000	6,710	.4	1.2
*	Cement Silo - in	6-DC-1	7,000	6,710	.6	2.0
*	Cement Silo - in	6-DC-2	7,000	6,710	.6	2.0
*	Truck load out	6-DC-3	13,000	6,240	1.1	3.4
*	Rail load out	6-DC-4	8,000	1,000	.7	.4
		Total - Present Permit				27.0
		Present permit increment over current				24.2

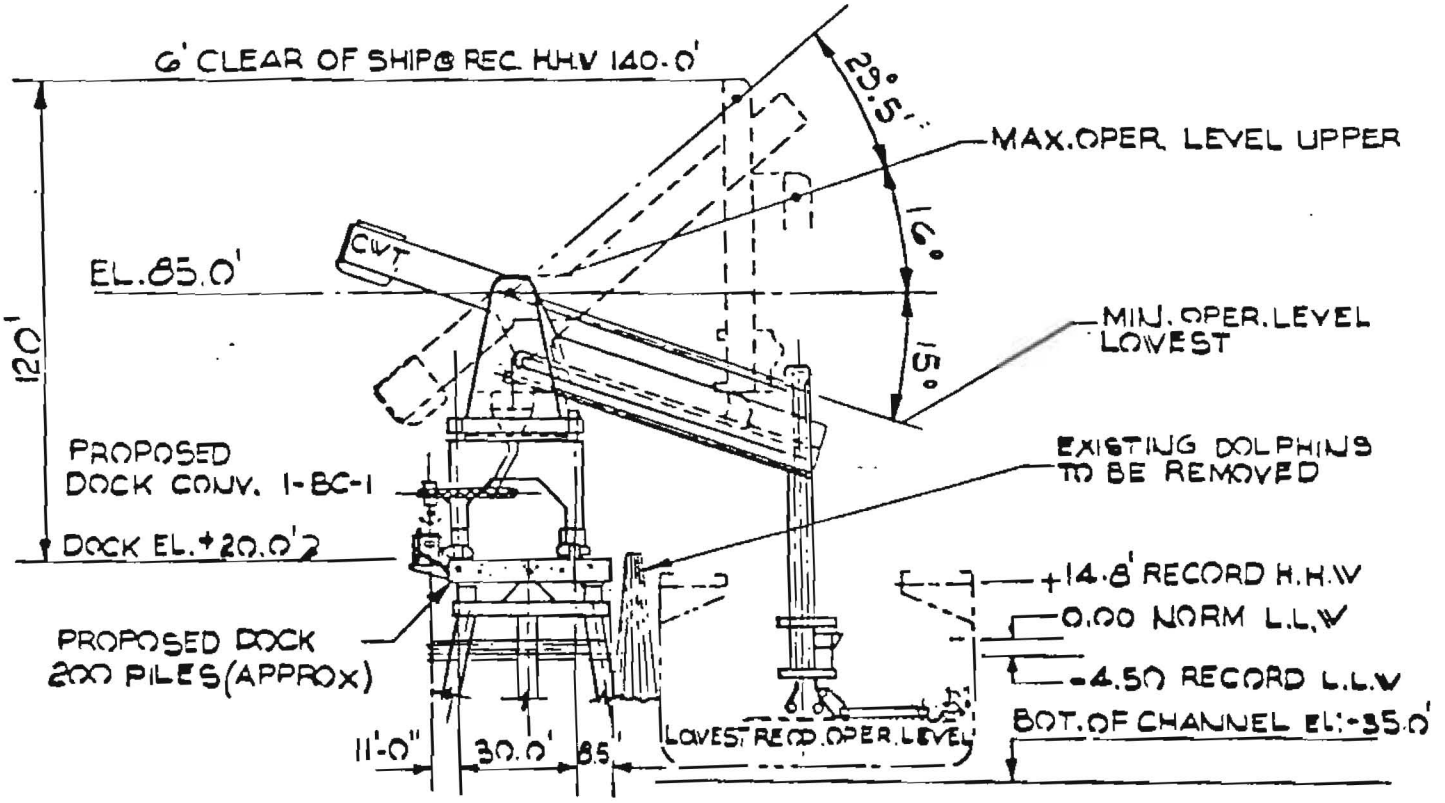
Proposed Modification - Interim Operation

	Ship unloader	1-DC-1	7,500	1,152	.6	.4
	Ship unloader	1-DC-2	7,500	1,152	.6	.4
	Ship unloader transfer	1-DC-3	2,500	1,152	.2	.1
	Dock belt transfer	1-DC-4	2,000	1,152	.2	.1
	Shore belt transfer	1-DC-5	2,000	1,152	.2	.1
	Shore belt transfer	1-DC-6	2,000	1,152	.2	.1
*	Silo - in	6-DC-1	7,000	1,152	.6	.3
*	Silo - in	6-DC-2	7,000	1,152	.6	.3
*	Truck load out	6-DC-3	13,000	6,240	1.1	3.4
*	Rail load out	6-DC-4	8,000	1,000	.7	.4
		Total - Proposed Modification - Interim Operation				5.6
		Proposed increment over current				2.8
		Proposed interim reduction from present permit				(21.4)

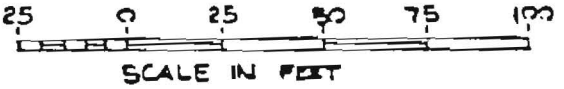
*Existing



PLAN



SECTION A-A



071-0YB-1-005394

ENCLOSED BUCKET CONVEYOR
UNLOADING SYSTEM

IN: DUWAMISH RIVER

AT: SEATTLE

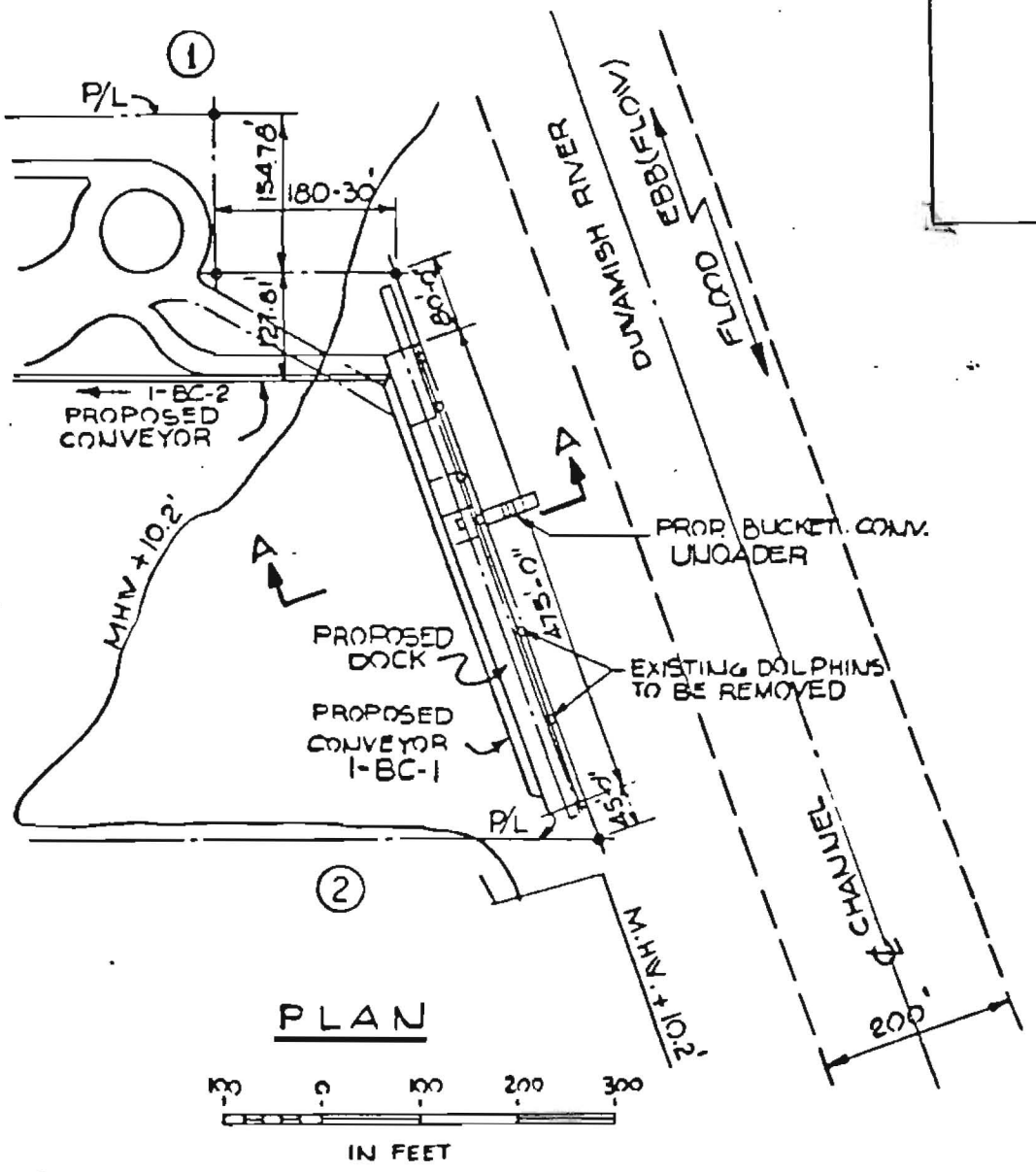
COUNTY OF: KING STATE: WA

APPLICATION BY: KAISER CEMENT & GYPSUM CORPORATION

SHEET: 3 OF 4 JAN/31/1979

REV. 2 9-4-1980

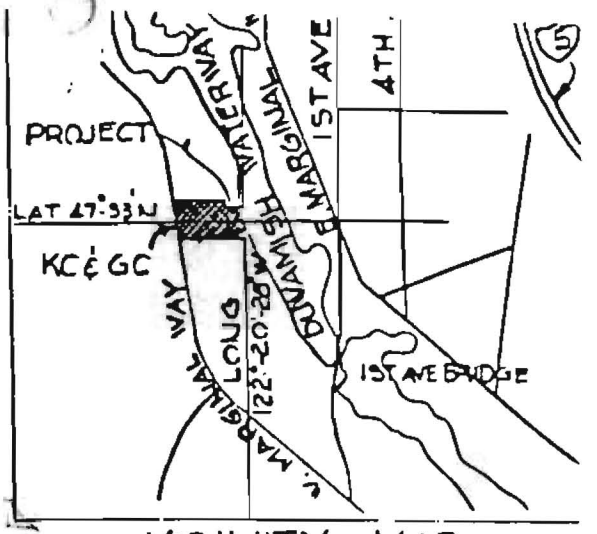
AGCS2M003482



PLAN

100 0 100 200 300

IN FEET



VICINITY MAP

KM 0 1000 2000 3000

IN FEET

NOTE: EXISTING PIER & ACCESSTO BE REMOVE:

NO FEDERAL HARBOR LINES ESTABLISHED

PURPOSE: BULK SHIP UNLOADING FACILITIES

DATUM: NGVD = 0.0' (1929)

ADJACENT PROPERTY OWNER'S

① - DUWAMISH SHIPYARD, INC.

② - PORT OF SEATTLE

071-OYB-1-005394

ENCLOSED BUCKET CONVEYOR UNLOADING SYSTEM

IN: DUWAMISH RIVER

AT: SEATTLE

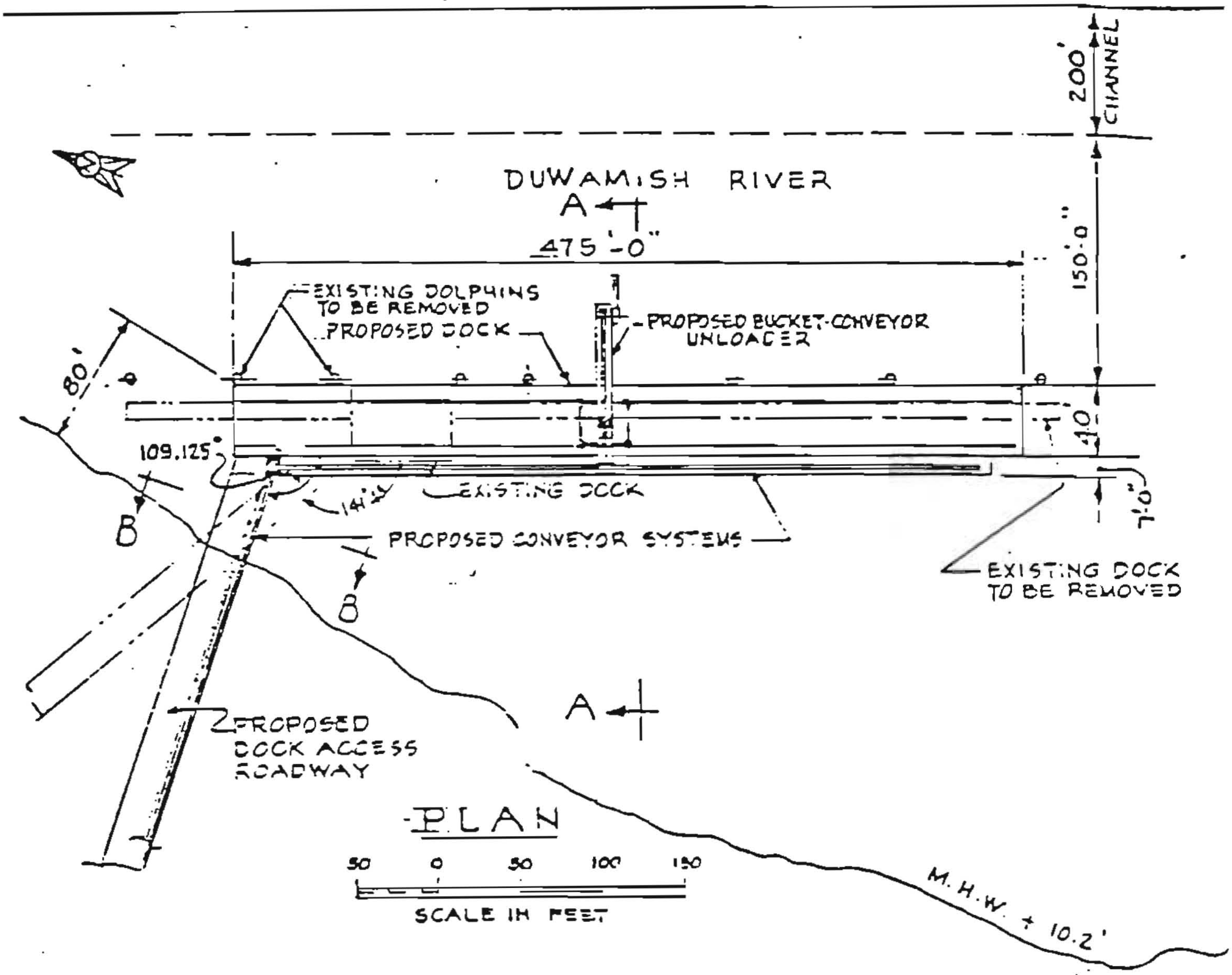
COUNTY OF KING STATE: WA.

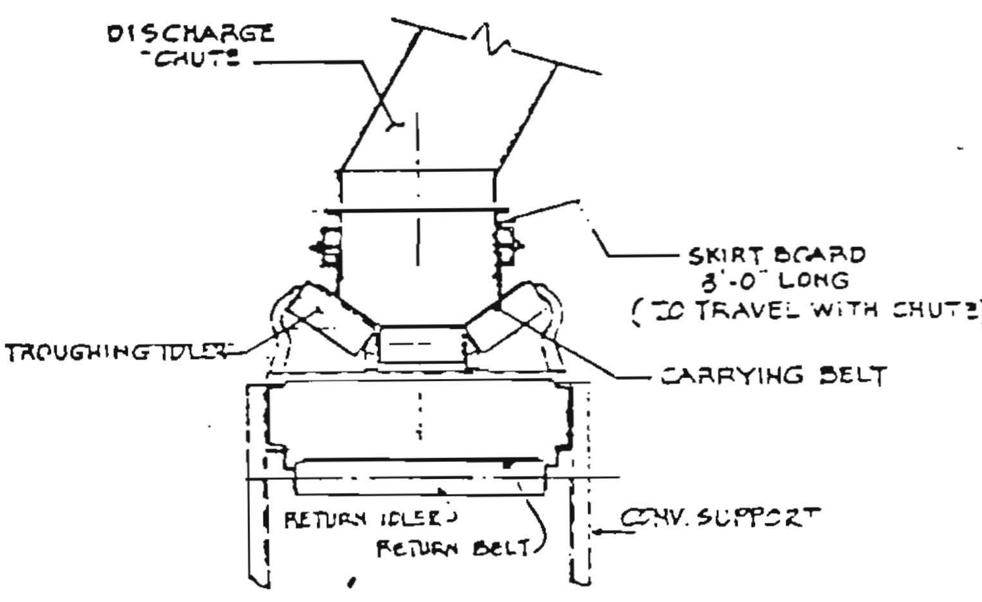
APPLICATION BY: KAISER CEMENT & GYPSUM CORPORATION

SHEET 1 OF 4 JAN/31/79

REV. 2 9-4-1980

AGCS2M003483





SECTION "B-B"
SECTION THRU CONVEYOR

071-OYB-1-005394

ENCLOSED BUCKET CON VEYOR UNLOADING SYST

IN: DUWAMISH RIVER

AT: SEATTLE

COUNTY OF: KING STATE

APPLICATION BY: KAISER CEM & GYPSUM CORPORATI

DATE: ... SHEET 2

AGCS2M003484

PUGET SOUND AIR POLLUTION CONTROL AGENCY

ENGINEERING DIVISION

410 WEST HARRISON STREET, P.O. BOX 9863, SEATTLE, WASHINGTON 98109

(206) 344-7334

Notice of Construction and Application for Approval

FORM P SIDE 1

Be sure to complete items 39, 40, 41, & 43 before submitting Form P.

(AGENCY USE ONLY)

DATE _____ N/C NUMBER _____

REG. NO. _____ VAR. NO. _____

SIC. NO _____ COS. NO. _____

GRID NO. _____ UTM _____

1. TYPE OF BUILDING (Check): X New ☐ Existing

2. STATUS OF EQUIPMENT (Check): ☐ New ☐ Existing ☒ Altered ☐ Relocation

7. APPLICANT: Kaiser Cement Corporation

3. COMPANY (OR OWNER) NAME: Kaiser Cement Corporation

8. APPLICANT ADDRESS: 300 Lakeside Drive, Oakland, CA 94612

4. COMPANY (OR OWNER) MAILING ADDRESS: 300 Lakeside Drive, Oakland, CA 94612

9. INSTALLATION ADDRESS: 5900 W. Marginal Way SW, Seattle, Washington

5. NATURE OF BUSINESS: Cement manufacturing and distribution

10. TYPE OF PROCESS: Material transfer

EQUIPMENT (ENTER NUMBER OF UNITS OF EQUIPMENT IN SPACES IN COLUMNS. COMPLETE A FORM S FOR EACH ENTRY.)

11. NO. OF UNITS	SPACE HEATERS OR BOILERS (Complete Form S-A)	14. NO. OF UNITS	OVENS	15. NO. OF UNITS	MECHANICAL EQUIP.	16. NO. OF UNITS	MELTING FURNACES
(a)		(a)	CORE BAKING OVEN	(a)	AREAS	(a)	POT
12. NO. OF UNITS	INCINERATORS (Complete Form S-B)	(b)	PAINT BAKING	(b) 2	BULK CONVEYOR	(b)	REVERBERATORY
		(c)	PLASTIC CURING	(c)	CLASSIFIER	(c)	ELECTRIC INDUC/RESIST
(a)		(d)	LITHO COATING OVEN	(d)	STORAGE BIN	(d)	CRUCIBLE
13. NO. OF UNITS	OTHER SYSTEMS	(e)	DRYER	(e)	BAGGING	(e)	CUPOLA
		(f)	ROASTER	(f)	OUTSIDE BULK STORAGE	(f)	ELECTRIC ARC
(a)	DEGREASING, SOLVENT	(g)	KILN	(g) 1	LOADING OR UNLOADING	(g)	SWEAT
(b)	SHOT BLASTING	(h)	HEAT-TREATING	(h)	BATCHING	(h)	OTHER METALLIC
(c)	SAND BLASTING	(i)	OTHER	(i)	MIXER (SOLIDS)	(i)	GLASS
(d)	OTHER – SYSTEM	(j)		(j)	OTHER	(j)	OTHER NON METALLIC
17. NO. OF UNITS	**GENERAL OPER. EQUIP.**	**17. NO. OF UNITS**	**GENERAL OPER. EQUIP.**	**17. NO. OF UNITS**	**GENERAL OPER. EQUIP.**	**18. NO. OF UNITS**	**OTHER EQUIPMENT**
(a)	CHEMICAL MILLING	(f)	GALVANIZING	(k)	ASPHALT BLOWING	(a)	SPRAY PAINTING GUN
(b)	PLATING	(g)	IMPREGNATING	(l)	CHEMICAL COATING	(b)	SPRAY BOOTH OR ROOM
(c)	DIGESTER	(h)	MIXING OR FORMULATING	(m)	COFFEE ROASTER	(c)	FLOW COATING
(d)	DRY CLEANING	(i)	REACTOR	(n)	DEEP FAT FRYER	(d)	FIBERGLASSING
(e)	FORMING OR MOLDING	(j)	STILL	(o)	STORAGE TANK	(e)	OTHER

CONTROL DEVICES (ENTER NUMBER OF UNITS OF EQUIPMENT IN SPACES IN COLUMNS. COMPLETE A FORM R FOR EACH ENTRY.)

19. NO. OF UNITS	CONTROL DEVICE	20. NO. OF UNITS	CONTROL DEVICE	21. NO. OF UNITS	CONTROL DEVICE	22. NO. OF UNITS	CONTROL DEVICE
(a)	SPRAY CURTAIN	(a)	AIR WASHER	(a)	ABSORBER	(a)	DEMISTER
(b)	CYCLONE	(b)	WET COLLECTOR	(b)	ADSORBER	(b) 5	BAGHOUSE
(c)	MULTIPLE CYCLONE	(c)	VENTURI SCRUBBER	(c)	FILTER PADS	(c)	ELEC. PRECIPITATOR
(d)	INERTIAL COLL. – OTHER	(d)		(d)	AFTERBURNER	(d)	OTHER

23. BASIC EQUIPMENT COST (Estimate): $6,000,000.00

24. CONTROL EQUIPMENT COST (Estimate): $60,000.00

25. DAILY HOURS: FROM 0000 AM to 2400 PM

26. DAYS OF OPERATION (Circle): ① ② ③ ④ ⑤ ⑥ ⑦

27. ESTIMATED STARTING DATE OF CONSTRUCTION: April 1979

28. ESTIMATED COMPLETION DATE OF CONSTRUCTION: April 1981

29. RAW MATERIALS (List starting material used in process) AND FUELS (Type and amount)	ANNUAL AMT. UNITS	30. PRODUCTS (List End Products)	ANNUAL PROD. Tons per Year UNITS
(a)		(a) Cement	600,000
(b)		(b)	
(c)		(c)	
(d)		(d)	
(e)		(e)	
(f)		(f)	
(g)			

AGCS2M003485

PUGET SOUND AIR POLLUTION CONTROL AGENCY

ENGINEERING DIVISION
410 W. HARRISON STREET SEATTLE, WASHINGTON 98119 (206) 344-7330

Notice of Construction and Application for Approva

*Note: Information required by Section 1a must be completed, for this form to be accepted for review.

FOR AIR POLLUTION CONTROL EQUIPMENT ONLY
PLEASE CONSULT INSTRUCTION SHEETS BEFORE FORWARDING

FORM R

DATE _____ N/C # _____

1	a. COMPLETE THE SECTIONS INDICATED ☒1 ☒2 ☒3 ☐4 ☐5 ☒6 ☐7 ☒8 ☐9 ☒10 ☒11 ☐12		b. COMPANY (OR OWNER) INSTALLATION ADDRESS: 5900 W. Marginal Way SW, Seattle, WA	
	c. COMPANY (OR OWNER) NAME: Kaiser Cement Corporation		d. APPLICANT: Kaiser Cement Corporation	
	e. PREPARED BY: (Name and Title) R. H. Berby, Manager, Environmental Control & Energy		f. PREPARED BY: (Signature)	g. PHONE (41 271-2123
2	a. AIR POLLUTION CONTROL EQUIPMENT DATA	b. TYPE OF EQUIPMENT: Baghouse	c. MAKE AND MODEL: Vokes DLM-V20-F	d. DIMENSIONS (L x W x H): .6' x 5' x 2.8'
	e. NUMBER OF UNITS CAPACITY: 3 @ 2,000	f. EFFICIENCY COLLECTION: 99.9	g. AUXILIARY EQUIPMENT	h. CONNECTED TO: Conveyor Discharge Points
3	a. BAGHOUSE	b. NUMBER OF BAGS: 20	c. SHAKING CYCLE (auto or manual rapping or reverse air): Auto Pulse Jet	d. CLOTH AREA: 210
	e. MATERIAL USED: Felt	f.	g.	h. CONNECTED TO: Atmosphere
4	a. ELECTROSTATIC PRECIP.	b. ELECTRODE SEPARATION (FT)	c. COLL. ELECTRODE DIMENSIONS: W x L (Feet)	d. MEAN VELOCITY OF GAS (FPS)
	e. AREA (Sq Ft)	f. VOLTAGE	g. COLL. ELECTRODE OR PLATE AREA (Sq Ft)	h. CONNECTED TO:
5	a. BURNER DATA	b. TYPE OF BURNER, FUEL	c. MAKE AND MODEL	d. RATING
	e. NUMBER OF UNITS-IGNITION	f.	g. CFM EXHAUSTED (Temp)	h. CONNECTED TO:
6	a. STACKS, VENTS	b. TYPE OF VENT	c. DIMENSIONS (L x H x W): .5' x 2.8' x 1'	d. DAMPERS
	e. NUMBER OF VENTS, MAT'L USED: 1 ea. steel	f.	g. CFM EXHAUSTED (Temp): 2,000 ea. Amb.	h. CONNECTED TO: Atmosphere
7	a. SCRUBBER DATA	b. TYPE OF FLOW (Spray, Bubbler)	c. PACKING TYPE	d. PACKING SIZE
	e. COMPOSITION OF SOLUTION	f.	g. FLOW RATE (GPH)	h. MAKE UP (GPH)
8	a. FAN DATA	b. TYPE OF FAN (Designate Blade): Radial	c. MAKE AND MODEL: Vokes V20	d. MOTOR DATA RPM 7.5
	e. NUMBER OF FANS, MAT'L USED: 1 ea. steel	f.	g. CFM EXHAUSTED (Temp @ SP): 2,000 ea.	h. CONNECTED TO: Atmosphere
9	a. CYCLONE DATA	b. TYPE OF CYCLONE ☐ Common ☐ Split Duct ☐ Multiclone	c. MAKE AND MODEL	d. INLET AREA Sq
	e. NUMBER OF UNITS, MAT'L USED	f. BODY DIA. INCH OUTLET DIA. INCH	g. BODY HEIGHT INCH EFFICIENCY	h. CONNECTED TO:
10	a. COLLECTION DATA	b. DESCRIPTION OF COLLECTED MAT'L: Cement	c. AMOUNT COLLECTED: Ea. 4,000 POUNDS/DAY	d. PARTICLE SIZE (Average): 5 MICRO
	e. TYPES OF POLLUTANTS ☒ Particulate ☐ Gas ☐ Odor	f.	g. COLLECTION: 99.9	h. DISPOSITION OF COLLECTION WASTE: Return to Belt
11	a. See Form R-1	b.	c.	d.
	e.	f.	g.	h.
	i.	j.	k.	l.
12	a. GAS FLOW	b. ACTUAL CFM: 2,000	c. SCFM (Req'd Standard): 2,000	d. TEMPERATURE (F) IN Amb OUT Amb
	e. PRESSURE DROP: 7"	f. EFFICIENCY: 99.9	g. INLET AND OUTLET POLLUTANT CONCENTRATIONS: 10 .01 gr/CF	h.

AGCS2M003486

PUGET SOUND AIR POLLUTION CONTROL AGENCY

ENGINEERING DIVISION
410 W. HARRISON STREET SEATTLE, WASHINGTON 98119 (206) 344-7330

Notice of Construction and Application for Approva

*Note: Information required by Section 1a must be completed, for this form to be accepted for review.

FOR AIR POLLUTION CONTROL EQUIPMENT ONLY
PLEASE CONSULT INSTRUCTION SHEETS BEFORE FORWARDING

FORM R

DATE_____ N/C #_____

	a. COMPLETE THE SECTIONS INDICATED ☒1 ☒2 ☒3 ☐4 ☐5 ☒6 ☐7 ☒8 ☐9 ☒10 ☒11 ☐12		b. COMPANY (OR OWNER) INSTALLATION ADDRESS: 5900 W. Marginal Way SW, Seattle, WA	
1	c. COMPANY (OR OWNER) NAME: Kaiser Cement Corporation		d. APPLICANT: Kaiser Cement Corporation	
	e. PREPARED BY: (Name and Title) R. H. Berby, Manager, Environmental Control & Energy		f. PREPARED BY: (Signature)	g. PHONE ( ) 271-2123
2	a. AIR POLLUTION CONTROL EQUIPMENT DATA	b. TYPE OF EQUIPMENT: Baghouse	c. MAKE AND MODEL: MikroPul 144S-10-20	d. DIMENSIONS (L x W x H): 7' x 7' x 18'
	e. NUMBER OF UNITS CAPACITY: 2 @ 7500 CFM ea.	f. EFFICIENCY COLLECTION: 99.9	g. AUXILIARY EQUIPMENT	h. CONNECTED TO: Ship Unloader
3	a. BAGHOUSE	b. NUMBER OF BAGS: 144	c. SHAKING CYCLE (auto or manual rapping or reverse air): Auto Pulse Jet	d. CLOTH AREA: 1696
	e. MATERIAL USED: Felt	f.	g.	h. CONNECTED TO: Atmosphere
4	a. ELECTROSTATIC PRECIP.	b. ELECTRODE SEPARATION (FT)	c. COLL. ELECTRODE DIMENSIONS: W x L (Feet)	d. MEAN VELOCITY OF GAS (FPS)
	e. AREA (Sq Ft)	f. VOLTAGE	g. COLL. ELECTRODE OR PLATE AREA (Sq Ft)	h. CONNECTED TO:
5	a. BURNER DATA	b. TYPE OF BURNER, FUEL	c. MAKE AND MODEL	d. RATING
	e. NUMBER OF UNITS/IGNITION	f.	g. CFM EXHAUSTED (Temp)	h. CONNECTED TO:
6	a. STACKS, VENTS	b. TYPE OF VENT	c. DIMENSIONS (L x H x W): 1.3' x 5' x 1.6'	d. DAMPERS
	e. NUMBER OF VENTS, MAT'L USED: 1 ea. steel	f.	g. CFM EXHAUSTED (Temp): 7500 ea.	h. CONNECTED TO: Atmosphere
7	a. SCRUBBER DATA	b. TYPE OF FLOW (Spray, Bubbler)	c. PACKING TYPE	d. PACKING SIZE
	e. COMPOSITION OF SOLUTION	f.	g. FLOW RATE (GPH)	h. MAKE UP (GPH)
8	a. FAN DATA	b. TYPE OF FAN (Designate Blade): Radial	c. MAKE AND MODEL: Clarage 219 XL	d. MOTOR DATA: 1343 RPM 25
	e. NUMBER OF FANS, MAT'L USED: 1 ea. steel	f.	g. CFM EXHAUSTED (Temp & SP): 7500 ea.	h. CONNECTED TO: Atmosphere
9	a. CYCLONE DATA	b. TYPE OF CYCLONE: ○ Common ○ Split Duct ○ Multiclone	c. MAKE AND MODEL	d. INLET AREA Sq
	e. NUMBER OF UNITS, MAT'L USED	f. BODY DIA. INCH OUTLET DIA. INCH	g. BODY HEIGHT INCH EFFICIENCY	h. CONNECTED TO:
10	a. COLLECTION DATA	b. DESCRIPTION OF COLLECTED MAT'L: Cement	c. AMOUNT COLLECTED: Ea. 5,000 POUNDS/DAY	d. PARTICLE SIZE (Average): 5 MICRO
	e. TYPES OF POLLUTANTS: ☒Particulate ○ Gas ○ Odor	f.	g. COLLECTION: 99.9	h. DISPOSITION OF COLLECTION WASTE: Return to Screw
11	a. Soz Fan # 1	b.	c.	d.
	e.	f.	g.	h.
	i.	j.	k.	l.
12	a. GAS FLOW	b. ACTUAL CFM: 7500 ea.	c. SCFM (Req't Standard): 7500 ea.	d. TEMPERATURE (F): IN Amb. OUT Amb.
	e. PRESSURE DROP: 10"	f. EFFICIENCY: 99.9	g. INLET AND OUTLET POLLUTANT CONCENTRATIONS: 10 .01 gr/cf	h.

AGCS2M003487

F get Sound Air Poll on Control Agency

cc: T. O'Donnell 5/6/

Notice of Construction No. 1909

Date MAY 24 1979

HEREBY GRANTS
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Midwest Conveyor Company continuous 1,000 ton per hour unloader; storage silos - 3 - 600 ton, 1 - 30,000 ton; Gypsum rail/truck loadout; finish mill with separator, cooler; all conveyors from dock through loadout. All transfer points and vents to Mikro-pulsaire baghouses enclosed.

APPLICANT
Kaiser Cement & Gypsum Company (NAME)
300 Lakeside Drive (STREET)
Oakland, CA 94623 (CITY, STATE, ZIP)

OWNER
Same (NAME)
(STREET)
(CITY, STATE, ZIP)

INSTALLATION ADDRESS
5900 West Marginal Way SW (STREET) Seattle, WA (CITY, STATE, ZIP)

SUBJECT TO THE FOLLOWING RESTRICTIONS

GENERAL

Permission is hereby granted as provided in Article 6 of Regulation I of the PSAPCA to the APPLICANT to install, alter, or establish the equipment, device, or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the ENGINEERING DIVISION of PSAPCA. This approval is not a waiver of liability for the infraction of Regulation I nor does it relieve the APPLICANT or OWNER of any requirements of other government agencies.

R. J. Wright
Reviewing Engineer

mh

Form 50-118 Approved 11/73

SPECIFIC

Subject to letter dated: May 24, 1979

A. R. Dammkoehler
Air Pollution Control Officer

AGCS2M003488

PUGET SOUND AIR POLLUTION CONTROL AGENCY

ENGINEERING DIVISION
410 W. HARRISON STREET SEATTLE, WASHINGTON 98119 (206) 344-7330

Notice of Construction and Application for Approval

*Note: Information required by Section 1a must be completed, for this form to be accepted for review.

FOR AIR POLLUTION CONTROL EQUIPMENT ONLY
PLEASE CONSULT INSTRUCTION SHEETS BEFORE FORWARDING

FORM R

DATE _____ N/C # _____

a. COMPLETE THE SECTIONS INDICATED ☒1 ☒2 ☒3 ☐4 ☐5 ☒6 ☐7 ☒8 ☐9 ☒10 ☒11 ☐12

b. COMPANY (OR OWNER) INSTALLATION ADDRESS: 5900 W. Marginal Way SW, Seattle, WA

c. COMPANY (OR OWNER) NAME: Kaiser Cement Corporation

d. APPLICANT: Kaiser Cement Corporation

1

e. PREPARED BY: (Name and Title) R. H. Berby, Manager, Environmental Control & Energy

f. PREPARED BY: (Signature)

g. PHONE (41[illegible] 271-2123

2	a. AIR POLLUTION CONTROL EQUIPMENT DATA	b. TYPE OF EQUIPMENT	c. MAKE AND MODEL: MikroPul 49S-8-20	d. DIMENSIONS (L x W x H): 4.5' x 4.5' x 13.4'
	e. NUMBER OF UNITS CAPACITY: 1 @ 2,500	f. EFFICIENCY COLLECTION: 99.9	g. AUXILIARY EQUIPMENT	h. CONNECTED TO: Unloader Discharge Sc
3	a. BAGHOUSE	b. NUMBER OF BAGS: 49	c. SHAKING CYCLE (auto or manual rapping or reverse air): Auto Pulse Jet	d. CLOTH AREA: 462
	e. MATERIAL USED: Felt	f.	g.	h. CONNECTED TO: Atmosphere
4	a. ELECTROSTATIC PRECIP.	b. ELECTRODE SEPARATION (FT)	c. COLL. ELECTRODE DIMENSIONS: W x L (Feet)	d. MEAN VELOCITY OF GAS (FPS)
	e. AREA (Sq Ft)	f. VOLTAGE	g. COLL. ELECTRODE OR PLATE AREA (Sq Ft)	h. CONNECTED TO:
5	a. BURNER DATA	b. TYPE OF BURNER, FUEL	c. MAKE AND MODEL	d. RATING
	e. NUMBER OF UNITS/IGNITION	f.	g. CFM EXHAUSTED (Temp)	h. CONNECTED TO:
6	a. STACKS, VENTS	b. TYPE OF VENT	c. DIMENSIONS (L x H x W): .8' x 5' x .9'	d. DAMPERS
	e. NUMBER OF VENTS, MAT'L USED: 1 steel	f.	g. CFM EXHAUSTED (Temp): 2,500 Amb.	h. CONNECTED TO: Atmosphere
7	a. SCRUBBER DATA	b. TYPE OF FLOW (Spray, Bubbler)	c. PACKING TYPE	d. PACKING SIZE
	e. COMPOSITION OF SOLUTION	f.	g. FLOW RATE (GPH)	h. MAKE UP (GPH)
8	a. FAN DATA	b. TYPE OF FAN (Designate Blade): Radial	c. MAKE AND MODEL: Clarage 211XL	d. MOTOR DATA: 2121 RPM 7.5 H
	e. NUMBER OF FANS, MAT'L USED: 1 steel	f.	g. CFM EXHAUSTED (Temp @ SP): 2,500	h. CONNECTED TO: Atmosphere
9	a. CYCLONE DATA	b. TYPE OF CYCLONE ☐ Common ☐ Split Duct ☐ Multiclone	c. MAKE AND MODEL	d. INLET AREA Sq
	e. NUMBER OF UNITS, MAT'L USED	f. BODY DIA. INCH OUTLET DIA. INCH	g. BODY HEIGHT INCH EFFICIENCY	h. CONNECTED TO:
10	a. COLLECTION DATA	b. DESCRIPTION OF COLLECTED MAT'L: Cement	c. AMOUNT COLLECTED: 5,000 POUNDS/DAY	d. PARTICLE SIZE (Average): 5 MICRO
	e. TYPES OF POLLUTANTS ☒Particulate ☐Gas ☐Odor	f.	g. COLLECTION: 99.9	h. DISPOSITION OF COLLECTION WASTE: Return to Screw
11	a. See Form F #1	b.	c.	d.
	e.	f.	g.	h.
	i.	j.	k.	l.
12	a. GAS FLOW	b. ACTUAL CFM: 2,500	c. SCFM (Reg I Standard): 2,500	d. TEMPERATURE (F): IN Amb. OUT Amb.
	e. PRESSURE DROP: 8"	f. EFFICIENCY: 99.9	g. INLET AND OUTLET POLLUTANT CONCENTRATIONS: 10 .01 gr/scf	h.

AGCS2M003489

bcc: Chief-Enforcement
Senior Air Pollution Inspector, De Haan
Chief-Engineering
Source File

April 5, 1979

4/6/87 - THE PACECO DEVICE HAS SINCE PROVEN TO BE A DUD. FURTHER CORRESPONDENCE IN THE FILE ACKNOWLEDGES THIS AND ACKNOWLEDGES THAT CLAMSHELLS MAY STILL BE ACCEPTABLE.
NOTE: SEVERAL MORE TERMINALS INCLUDING LSI NOW OPERATE USE THEM.

Mr. R. Berby, Manager
Environmental Control Managing
Kaiser Cement & Gypsum Corporation
300 Lakeside Drive
Oakland, CA 94666

Dear Mr. Berby:

Notice of Construction-Application for Approval
No. 1909 for Installation of a Clinker Finish Mill
and Associated Control Equipment and Conveyors

We have completed a review of your proposed Notice of Construction No. 1909 and have determined that a clamshell bucket is not acceptable for unloading clinker. Use of these buckets commonly results in dust emissions, and at several facilities, it has caused violations of Regulation I. Complicating the situation further, your mill is in a nonattainment area which needs a sizeable reduction in emissions by 1982.

We will withhold any further processing of the application until you have had a chance to determine the suitability of alternative methods, and propose a revision. We would appreciate being kept informed of any new developments in your evaluation of selection of an unloading procedure, and would be happy to meet with you.

We have recently held meetings with Paceco, Inc., and EPA concerning Paceco's continuous unloader which uses a series of quick-coupled buckets and wire rope sections. At this time, this particular procedure may well become the best available control technology, probably LAER for this particular process as compared to other continuous marine leg techniques or a clamshell bucket. It would be our recommendation that this be seriously considered as the method to be used at your Seattle facility.

As you are aware, there will be a demonstration of the Paceco technique down in the Gulfport, Mississippi area around the middle of April, and we understand that you will have representatives present. We will be conferring with EPA, Region IV, and the Mississippi State Agency about the apparent suitability of the technique.

Sincerely,

A. R. Dammkoehler
Air Pollution Control Officer

jk